IN THE CLAIMS

1. (Currently amended) A water-based cyan ink for ink-jet printing, comprising pigment particles or water insoluble colored polymer particles,

wherein an ink-jet image is formed by jetting the water-based cyan ink on a porous ink-jet recording sheet with an ink-jet printer without being subjected to an post-treatment, and the ink-jet image has the following set of color coordinate values in a L*a*b* color space when L* is in a range of 65 < L* < 75:

- (i) $-20 < a^* < 20$; and
- (ii) $-20 < b^* < 20$,

the water insoluble colored polymer particles contain a colorant covered with a polymer, provided that when the colorant is a pigment, a weight ratio of the polymer to the pigment is in the range of 0.6 to 10; and when the colorant is a dye, a weight ratio of the polymer to the dye is in the range of 0.4 to 10.

- 2. (Currently amended) The water-based cyan ink of claim 1, wherein the pigment particles or the water insoluble colored polymer particles has a volume average particle diameter of 10 to 200 nm.
- 3. (Currently amended) The water-based cyan ink of claim 1 further comprises a water-soluble polymer, wherein and secondary particles of the pigment particles or the water insoluble colored polymer particles satisfy Formula (1):

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Formula (1)

$$10 \text{ X}^{-0.7} < \text{Y} < 40 \text{ X}^{-0.7}$$

wherein X is a volume average particle diameter; and

Y is a polydispersity index which is defined by the following formula:

$$Y = (D_{90} - D_{10}) / D_{50}$$

wherein D_{90} , D_{50} , and D_{10} are respectively particle diameters at which an integral of a distribution function dG (dG = F(D) x dD) is equal to 90 volume%, 50 volume% and 10 volume% of the total volume of the secondary-particles or the water insoluble colored polymer particles, wherein G is a volume of the particle, D is a diameter of the secondary particle the particle and F(D) is a volume frequency function.

- 4. (Currently amended) The water-based cyan ink of claim 1 further comprises a water-soluble polymer in an amount of not less than 2 times of weight of the pigment partieles or the water insoluble colored polymer particles.
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Cancelled)

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8. (Currently amended) An ink set for ink-jet printing containing a water-based cyan ink which comprises pigment particles or water insoluble colored polymer particles,

wherein an ink-jet image is formed by jetting the ink set on a porous ink-jet recording sheet with an ink-jet printer without being subjected to an post-treatment, and the ink-jet image has the following set of color coordinate values in a L*a*b* color space when L* is in a range of 50 < L* < 90:

- (i) $-20 < a^* < 20$; and
- (ii) $-20 < b^* < 20$,

the water insoluble colored polymer particles contain a colorant covered with a polymer, provided that when the colorant is a pigment, a weight ratio of the polymer to the pigment is in the range of 0.6 to 10; and when the colorant is a dye, a weight ratio of the polymer to the dye is in the range of 0.4 to 10.

- 10. (Cancelled)
- 11. (Cancelled)